

### **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the application:

#### **Listing of Claims**

Claim 1 (currently amended): An as-grown single crystal of calcium fluoride obtained by a single crystal pulling method and having a straight barrel part diameter of 17 cm or more, a straight barrel part length of 8 cm or more and a birefringence of not more than 3 nm/cm.

Claim 2 (original): The as-grown single crystal of calcium fluoride as claimed in claim 1, wherein the standard deviation of the birefringence is not more than 2.0 nm/cm.

Claim 3 (canceled)

Claim 4 (new): The as-grown single crystal of calcium fluoride as claimed in claim 1, wherein the birefringence is less than 1 nm/cm.

Claim 5 (new): The as-grown single crystal of calcium fluoride as claimed in claim 2, wherein the birefringence is less than 1 nm/cm.

Claim 6 (new): The as-grown single crystal of calcium fluoride as claimed in claim 4, wherein the birefringence is about 0.892 nm/cm.

Claim 7 (new): The as-grown single crystal of calcium fluoride as claimed in claim 5, wherein the birefringence is about 0.892 nm/cm.